E pay in Generation By Mexander Mc Downle Charleston fol a Papa March 25 4 1824

The expla of which the ay ina d'a subje the of Thy Al take to the stoo after fie de aptible to ay, to be one the of licati to E excep With opposition of consisting wis confirming the observation of our priving when you was as humanistic as humber of the consistence of which the day launce with fine but very for whatever the ignormal way immers (Greenty)

The subject of the fatterning open is one which has engagin the attention of Register girls of information argue with acknowledge to takents with the thick of information alcany could acknow the property way though in the object of information, it is every stockly be obtained in it is sure filled of death improvement as evend permits to be objected in the sure filled of death improvement as evend permits, it has by great the makined whichly, "but" as tollowness remarks, "it is importate to sure, the what he discourage of may that these things which we described. But it is happy for our that these theoreties of nonlogistic the comformations, or which colored the observation of nonof places are comformations, or which importance in practice of permisence having or way the lands improvedures in practice of permisence having or way the lands in the subject was appeared to the assignments of life, and the stakes some own to desirely the

en the es wes, Vial p d'oute Orginia to the of tie s and poper. Contitu - Hensing

Sife says an oto French writer is not the property of the initual but of the species - Notwithstanding ale the care taken to keep up the action energies of the fine tions of support, the proper an exact proportion between wast and supply in the animal economy, the former pre-- dominates after a certain length of time, to age comes on, the system granually deavys, and death, marpaning ensues, from the progrepine failure of the faculties are Vital powers . ___ But though insiriduals thus per -ich, it is not the intertion of nature that the lace Should become extinct, and the Junction of Generation was oreained for its preservation The Philosophical Physician should not direct his attention exclusively to the safety and comfort of the individual - The will invariably attendant on the advancement of civiliza tion and refinement unless obsided, strike at the fertility of the human species, as well as at the proper and vigorous development of the frame and constitution, Home we find sterility to be an in-- creasing affliction among females in more refine

whapp leaves . - de cal "die as the great of & 18 Ju ing of the une the of the m 9000 - 3 - body to

life, sterility, then which there is no were more litter, m misforture more intollerable - Savage and Civilized nations unite in taunting unfeelingly the unhappy female, who disappointed in her chief hope leave, unfulfilled the principle object of her play. - sieal existance, and paping away like a vapour "dies and leaves the world no copy" - Bonaparte being asked (by Madam de Start) who was the gre-- atest woman in existence replied the who has borne the greatest number of children, and the lineary Jewes, of the Roman Mother an acknowledged by universal Juling to be more valuable than all the treatures of the Indies - If then barrences be so deep a curse and the decine of ofstoring an instinct to general, gratification or disappointment in this particular the source of so much happines or misery, see much be showely culpable in neglecting the deligent study of the means of removeing the evil or promoting the good - But the first step is the progrep of our ences. Army to ascertain there means must be an attentive

de raiges Ma tion, while it The unto buy ins observate hum to Japlinica ak 0. in the two get men and three and penis tuber and Leve al of to white who the

examination of an inesthy alion into the functions is it as a summation of my first man bearantees is a present of my firm on the first matter of the my first matter of the interest of the first matter of experience to make the interest of experience to make have been authoritied conver of experience to make have been interested to the summation of the summation alies and the summation of the summation alies and its conjugate of facts to the man to the other attentions to the summation of facts to sufficient for hards for at home to the above sufficient for hards for at home to the above sufficient for hards for at home to the above summation of the summation of the summation to the summation of the summation to the summation t

The togues decline for it performance different in the two sees, into which the human land is discissed by the sees a singular get seen in this difference they present a singular mandage should not be the total the testines, the Vessella seminales, postate gland and penis, the Vessella seminales, postate gland and penis, the Wessella seminales, the little gland fathering the times and together the Wessella seminal place of the white the congrue significant genes of early life, that there organs begin to exhibit the think presently information who we had the opposite the second seminal genes of early life, that there organs begin to exhibit the think present in an orange contenting information of the whole system which they are declined to

the age de tin - fresh Voreta - Alak 1 ed len Le Yours to fit ages di the sig - perste d. Missiemo charges , particul m Carte vista ! and sto

exect for the future - at this period which is turned the age of publicly they are done topic with rapidly inereasing in dige and apuning their determinate forms The line at which public commences differs in deffrent climate The animal borge appearing like regulable plant to be densibly effected by the ga rich influence of the sun, aring at malurity earlin is warm than color regions - The extreens may be found in Asia am Africa where the Jemale is duri to be fit for chit's bearing, at her or Oleven years of age; and in Laplane not until they have arrived to Their eighteenth or nineleenth your, under our len perale sky in may fix on the fifteent year as the medium line at which both thee sexes unongo these changes, The influence exerted by the deve to prement of the genital organs is by no means confired to particular portions of the bory, although it is on particular parts that the most striking une Visible effects an produced, The appearance air even structure of the whole system und eyous

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particular modifications - The proportion of the skoleton are at this lime materially altered - Campu aparts that if the male & female forms are placed within an elipsis of equal dimensions, the shouldness of the male wile be without and the plais within-white The female shoulders will be within and the pelais with cout .. This greater capacity of the polour white the rest of the borg is on an average one with smaller there but of the much arrives from the greater of ins sion of the ossa Stir - the greater concavity and breadth of the sacreem and the consequently larger angle of the an oliow of the ocea pubis ... In man these charges are indened by hoursness of the voice, which is some times altinows by a swelling of the neck, by the growth of hair upon the breast, bory, chin, face and butes and by an increase of masculine manners in his de portment. In Woman a peculiar softress and temidily of benarious, balench and langour an on turnessed of the beautieus of the polis un a perement in icemme to the mamma, are the

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forour . of this rector, which is then particularly denotes by a discharge from the Vagina of a blody looking fluid which has received the title of the menstrual flux, not only does it show itself at the time of Jemale publisty. but is destined to reser at each returning lunar month, until oto age has taken from the woman her fitness for her part in the prosept of Peneration - The presence of this Yluis is said to be an exential token of the aplitude of the literus for conseption, but this does not seem to be the fact, for it has also been said that women have conceived who were never known to menstruate but its a terration from a healthy condition are ocelainly umong the principle caused of strilly as to the periodical actums of this evacuation, it must be altributed to the same law of "univical revolutions that governs all the functions of the ruman body . The more in which the development the vexual organs at the time of puberty pros suces the changes above described whom the gen

di rega 1:1. 7. lace of holls . an in Nes 1 Wole , in in i les Uters a mista en 0, 4 . the as the " cral dystom is totally unknown of The extent of their changes is unanswerable stampling not only the The sicar but the moral character of the sexes, they introle who The intellect of each sex a particular com sterior . . In Valsions of the mend are for a time directed to. and full of, but one object and becomes in some ca les so unruly as often to trample down and disregard the most to ared, social, and moral. ties, The whole constilution is shaker by the vis lower of these physical and moral tunutts and the health of many of both sexus receives permanent an exemediable injury in the consultion . This influence prevails do universally ever the whole of the mertal disposition and the borely frame of women in particular, that it had long times been sais of her "mulier est quos est prop ler Uterum solum" Then is however in this maxim a mistalement as to the source of the dequal in the erice, The oraria, not the uteous, are to be looked up on, as the origin, of all the Genale peculiarities.



In serious instances this exterpation has been followed not only by barronals as in the lower animals, but by the growth of banes and other up promodus in affirmance was character to those of the male, this is not the case with the Ulius.

At and we went not be man, but to frethe her harden the instituted preservation of man, but too frethe her safely to the returner captures of hunges are theirly, is, the hast conserved the steen of hunges are their the generical appellet to force we conservablely to at the let me made important objects, the securety was too for an about to the me made important objects, the securety was cordinated continuance of the secure to the secure by this most extent continuance of the secure of th



ejaculator and other museles at the moment of the most interde pleasure it omition is attender with some thing like a convulsion of the whole system, which has been in Some coded do t'estent as to shanger the life o' hice individual . sometimes the same undisaribable pleasure is experience by the female, but this is not executive to impregnation for women have been known to con weeks who join me him of enjoyment in sexual connection of French Lady of rank is reported to how sais that the knew nothing of per en alien but its torrows un paint. Itsuchton muche mention in his tralected of un indevidenal (Widower) who informer him that although there me is a he has been discourse in wither of his theres the least manifestation of pleasure or grately calen during coition get he was the father of this dren be with . These are singular an unaccountable acts, I con feel for my feart I should have thought it imbofible a priori in a acfutation to have been sue cepful without a pleasureable sympathy on the part of the female, as inhoughation seems to consist is a

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set of aboriated actions, in which, the highest degree of physical pleasure weath appear to be a murpay ingredient. There is however an important inferance to be drawn from them, It has been a much dispute. question whether an action for rape could be legally Instained when the woman has afterwards proved proj nant It has been laid down as a rule, that mental Yore is never succeptul against the consent of the porter tichated, that there for the untakes Gernale must be under the infamous imputation in such cases both of parjury and participation in the honious areas Tood attempts to get over this defficulty by the dis questing supposition that there may be so high a tone of constitutional orgasm us to be legen the contracts of the in willand who is lives force and not to be repose ped even by a victions recoil and a sense of honou at the time. The instances I have related are I think sufficient to decide the question that a participation of pleasure is by no means recepany to the impregnation of the Jemale I The secretion of the

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demen are its deposition in the Vagina is all that he -longs to the male in the function of Generalies. The perform this last it is necessary that the penis should take on exection by which it becomes tunic and hard I The cause of this phonomenon is of difficult decision, the part is sprongy in testure and the flow of blood to it is increased to such a de gree, that the vefels are unable to return it us fast as they teceine it, thechat says that The Corpora car emosa ditale spontaneously and an a coun ulation thus ensues, determination to it, is occusioned by various species of excitoment more particularly however by the stimules of min agenution and the most singular circumstance about it is, the rapidly with which it comes on and disa thems. The Minutent ellect of the seminal fluid is by no means nece pary for the commence of turgescenter of the point for it is said to take place in Eunuchs and I have my . Jeif pre questly observes a competent enclien in

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the peris of the Getting I The offices per lomes by the Jemale in the Junation of Generalism an not to be so distinctly lais down, nor are they by any me and clearly universation, whether any, or what sort of action goes on in the internal organs at the time of a succepful copulation, that is at the moment of imporeys ation no cannot day . The majority of women have at this junctive no pe . aution sensation which would lead them to im magine that any thing uncommon has occurred or was about to take place, with some Lew women He case is different I know not whether their als sections be true, or, whether they are influenced by Alreng inoming in alion, but Than been apure by mon than one that they could distinguish when the Vonerial congress has been fruitful, by certain peculiar fact ings which they either could not or write not de. scribe I der many ideas of the state of these in tunal organs immediately after copulation we are ediger to reter to tomparation unatorny



From this source have been drawn a few Jacks which appear to be indishutably settled - first - that the ovasies are the seat of conception - second - each o' The waies contain a number of vesicles filled with " hand area! flow - Third - a short time a ter in a plut coition one or more of these vericles on large look their brans, inch of and finally burst and discharges its contents, which is received by the findriated extremeties of the fallo lian tubes un conveyed to the uterus I After the escape of the alburninens drop from the craise Vesietes, the lits of the opening through which it papers are closed by a cicalaif and the remaining vareular membrane jiles with with bentit of a History aphenia a dight yellow, and hence receiving the name of corpus-Luteum & These corpora Lutea were formerly in "magine to exist only in consequence of fruitful. Coition, and hence to be infallible signs of conception But this is denied by Blumenback and Home who testify to the existance of copies Lutto in Vergini,

Micary dalfer the per phone . you the holier 1/2/ loops errest with su male . how you No lue door as 4 6 h

Home even aperts that the corpses Luteum is not a commation filling up as was supposed the carity If the resplace values , but the substance in which or by which the owne is produced and there for by no means admitible as a proof of conception. The different Theories which have been invented for the purpose of accounting for and explaining the planement of Generalismo are los numerous and for the most part to absend to require particular motion I snate therefore meanly hist at a few as I pap to those which at present agitate the phy · losophical worth The first opinion recording according to Denman was that of Pathagones who supposes that from the brain an normes of the male a moist vapour descended in the act of lois tion from which similar parts of the embryo wine Yourned, these were supposed to be the seat of the Soul, and the source from which the senses were deriver the other rach he immagines were compensed of the blood and humours of the Utavees.



He could stronged hard consisten let from the courty of to Mirror by the modern of the properties of to make we frequently too make we commit down , each of which operately too have to be made from the the embryo

Seems per una hat the Year alice of the andress to perfect upon the deads some and the automa dapples by the matter the methor of

"Many his in that an item by harden with a nangent becomes presence of manuale people list to the telline by the and of collection requires a plushed prince of consense of an embego in a number straiter that by what by beauth the brain is capable of appellant to an an analysis.

Is his account to establish a theory which went withstaw the galeanic persons of trainer, Sammelick thought that to him discovered by the consession to demand on the trainer and the the stones of the trainer which only tryinism as warm will as a the thing has been for tryinism as wearn will as a the things to the world and broughten to the will as it is the stone of the things of the trip tryinism as the things of the trip tryinism to the projections. But this through was construent by

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Some have dupperson have duppered tial the deries absorbed into the general circulation and consucta town into her carite of to themes, resides if hai was the fact, by what land, I would ash of yene ally deflute trough the circulation) delimen er to one proclienters tours, why not all be alite Section an a terman lear Willy as disty chil elsen at the treme lime, this tierry and been wafirity recould use why refuted by one o, the greatest unaments of Source i' the present day. Il fellen,

1 ... Posta posei 1 na un we enter 10m. poeter 1 1 16 . The days to by 0 1000 the hora her core

carried on by the excutation and that by inserting tome deman in the skin of the Temale we might raise a flock of chiloren as easily as the ear pustales" many other notions have been propose with a view of explaining this misterious operation, to enumerate all wouth he an emter es well as familles uncertaking, I shall theusen enter into the consideration of but two which teem to divise the principal Shysiologish of the present day I These differ priacipally in this The Jirst attribute the impregnation of the Jemale and Jecundalion of the germ, to the actual contact of the male somen with the osum or fluid of the ora tion I exicle, white the latter which is calittee The sympathetic doctrine and was first promulya ter by Haighton attributes the effect produce by a surreflut exputation to the all-sufficience. o. the peroce calles sumpally . It is to be observe however that on neither of these prince for can las



pretend to explain the immeriate or intimate and di an province, the walnes mistance; their so betien by the enrich am the intherence of tympather ling tolk consily increments. The question turn when 15 pain's exclusively - Does the male somen, extens ing the Uterus of the Temale, past one aids through the Vallapian tubes to the orasia. So as to reach the con containe in these tiries It min it deed, we are to presume this to be a necessary condition to 1000 entrypation, if it does not we must look for some one mere in which from alin may take place and this may be as well sympathy as un immagenable, The wyuments agains! the in terms live of the question they for may be to ceine at decein, in treesen I' the Jum, in the he decline, Let we examine these temen hat at land It is opented that from the structure and natural conviction of the parts, the male demen cannot pos sibly progress begin the lanen, lecurse of the



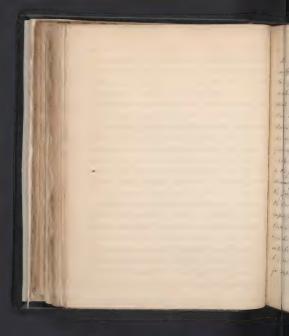
insufficiency of the projectile pour of the male organ - because of the spidsitude of the Seminal "thin - because of the rugus structure of the I wy in . It cannot enter the Ulerus it is said the month of this viscus because of the opener of the or Jina - because this orifice is filled up with a thick glutinous mucus-because of the narrowness of the canal through the neck and bory of the Uterus, It cannot arine at the orania because of the peculiarity of stonetime of the fulleficien tutes, who, because these to bes herry known to conven the weem to the whomes we have no right to imagine them to be invested with a double office and action of earlying semen to the hana To this hast of dellienties incient to a healthy aim natural state of the Sexual hack others are stile added resulting from morbio de sangement or congenital deformities - 1st The penis has its power of empeon lost or absissed by structure



strictures, debility He. 204 The Vagina is obstructed or shal wip by cohesions of its sides, by membranes of morbis growth, tumors &6. 3 by The Os Tinese is some times originally or from inflammation impervious and is occasionally remeded entirely inacupible by obliquity, retroversion, or poolapsus of the wont To the first class of objections arrising from the ma tural state of the parts it is only necessary to reply that the somen hasheen in numerous instances journ within the cavity of the televers, not only of the ruman but likewise of animals . Haller who had the pro dence to observe and candow to remark that some of those who believed they has found semen in the wheres jour mucus only once saw it he says in the uterus of a sheep 45 minutes after coilion John Hunter a stundly saw it projectes per sallun into the ateres of a bitch which he killed and laid open during ther union with the male I Ruysch asserts that he found it not only in the uteres but in the fallopian tubes also of two women, the one



a common uman ministre by her Earamour immicially after improgration, the other a married woman impregnated a few hours previous and Willes in the act of adultary by her husbane I To contrained all these we have the excells of the experiment of Hai ghton and others who dis not find any semen begins the Wagina, but As Granf could not find it then Yartman and surenez could not persein any of those changes in the state of the fallopian bubes at any time which were observed by other experimenters. But their negative of periments cannot shouly continue our confidence in the positive difficultion of the opponent . It is there is my humble opinion fauly made out, that it is not impossible for the semen to arine within the exteres - the have the apertion of Tayset that he saw it within the falls pian tubes the structure of which small in its commencement and enlargeing, somewhat resembles a lastial or veen, by no means distinctly indicating their insulseriancy to the office of conveying this place



Il junction too being peculiar does not forbid a peculi acty in its more of action, ever allowing that its two foto propulsion is not analogous to the natural action of any otic take in the body I He come next to examine the causes of impregnation when lieu was a morbed condition of parts I and here I would be y leave to remark that think it by no means nearpary that the sence sucule be jus injected into the Vapinal canal it is a jober contly tulberent it detrosites within it - if this or to act it removes then at once the objections drawn From the hirst det o cades, those in which the power o introducen is lost or abridged. In the secure, when the baying is obstructed by an imperforate hymen or otherwise, I should be observed that when the obstruction is total and compleat then can be no parage or the menstown fluir which with be collected be line to barrier, whatever it may be, and in this state of things, it must be impossible for impregnation to take place, where the obstruction



is not absolutely total, the objection goes for nothing You the smallest quantity of semen injectes may in its way to the uteres to and may be sufficient for impregnation, as may be sheen by referring to the experiments of spallanguni, who mixed these governs of gross semen with a constituable justice of water and gissindated nearly ale the numerous posterity consumed in the threads of the Genale, Even on the Theory of Hughton, the introduction of the deman into the Vagina is absolutely epential to the come menorment of the deries of sympathetic actions on which impregnation defiends It is not proved (Went Jam awar 1,) that there is any instance Known and well authenticated in which total occlusion of the Aterus existed previously to impregnation, inici lan al a los le imagine how this couts be ascertained. How the semen arrives at the Uterus I confep I am at a lo's to a etermine, it is enough to day that it has taken place in numerous instances, the shale be

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prepared to account for this phenomenon when it is known how absorbents take up chyle, how the new vous influence is communicated in the two foto man ner, in which it paper from and to the brain, and how in the external worts a doted dulstaned is the composer um in a bes its way unour the galvanie influence through the most impermeable bories. Let us now examine the sympathetic triery by which ale the difficulties above recounter are taid to be umoved or avoided - The somen says De Hai beton introduces into the Vulva jest themetals, The Vagena, as when, Wherine cavity, or ale of them By Sympathy the orarian Visites enlarge pro ject and bust - By sympathy the allopian to be incline to the oracia, embeare them, une convey The resiments of the falus to the womb, and by dam putie the Meres propuest jor per cating the immation un growth of the fates, It Haighton takes it for grantes, that the swelling and buesting of our of the Vesicles in the oranium, is a certain test of improgration



This phenomenon took place regularly whether the Fallo hian tubes " as eat or obstructed, he therefore concludes that the papage of the semen is not new cepany to improgration I But I have alreadybrought forward from Home and others facts to show that this his lest is fallacious, and that neither the bursting of a Vesicle nor the presence of a corpus luteum can by any means be considered as a dign of improgration - Now, his experiments noute have been mere datisfuctory and to the pure pose, has he assertained the actual presentation of any of these geomes by allowing it to grow and develope itself in the oracion, in the take, or in the absormen as sometimes happens in extra utime bregnancies in the human subject - Jases it ap - pears from the same experiments that the continuity, If one of the lates at least, was nece frage to any rection in the part of generation and the sympathet we conveyance of it, to and from the orarium, For even sexual desire is extenguished in the Rabbit



when both tubes are cut, and sometimes when only one If the other doctrine be at all asmipible it must ne cefacily be preferred, on account of the great ob - security of this of Haightons, which appears to lay down or affirm nothing, except one ignorance it all but extain bow facts, which an apumer as the basis of all speculation on these dack subjeck - Her my oven part I think that the morner the instances, which we know of the extrem point and can taken by nature to easen the contact of the male and female decertions in these instances when it takes place out of the body (and can he manager actilisially) offices us strong and legical leadon, to believe that the had to keen Equal care to promote the same contract in time thereis of animals, when it occurs within the boy and is there for entirely hirin from our eyes Then is a very great diversity of mirellaneous wack collecter, which are conformations of the general intention of nature to effect an actual



mixture or union of the made with the Jeanate you condine flexity, the very great desired with which copied good between the Child and both it passate is plansably between the Child and both it passate is plansably excessably for upon the formation, then also are may train the assess of all those incidence for may train the assess of made there is which are to uniously possess to be of a hundred and an amount of this manner also and in no other are measured to the manner also and in no other are measured to the manner also and in the other are formation of the attended qualities and internal are formation of the their animals and internal conformation of the their animals of the wind the middless of generalities is so allowed by measured to the middless of generalities as so also will be a city to an analysis to be a subject of known as a case water according to

Having Enerorally notice some of the theries of generalism, which have at different times an yayor the attention of the Disperlagish and more fruitioned to the secretary benefit on present on the charge in the allowing programmy can be more in which the other during programmy can be more in which the other



u then denstate are nomistie . - As pretominary to the consumation of this part of the subject, it Shall law down as in my opinion tollwally con rect, the following auctation from extenneus " Invious to or during the act of coition, it is presumes, that one or more of the Visicles, or ovar can tained in the soaria is brought to a state fit for in bee qualing, and that the male tomen, loing bearemille into the cavily of the would, is tiened consciented by one of the Yallopian lukes, to one of the orasion where it perfects the reciment of the fortas, or impropether. already perfected, with the principle of life - The prolific orum having unsergone its first chranes in the townium, is then become from its connection, great her by In Timbria, an recoveryer by en of of the "alloline takes to the energy of the whens? - The uteres a Her emper nation becomes, to be speak, the a souter of Musien, in himitees, and a sect of inflam malory action probably casus on it is lie nat surface which terminates in the effersion of conquilable worken



This effusion of lymph is supposes to consist of Two lamina the first talle decina tera lining the earity of the uterus except at the oritics of the lubes and corners. The second is decerna william is described by a late writer as being reflected down sem the infine of the tabet, at the entrunce of the soum into it and to invest this body, compliatly cover - ing it at first as with a pigment, whither this be Correct I shall not afterful to decido various of thiour being entertained of its formation, "all writers response this this subject agreeing that its formation is Continu per any with conception; and that it process, the time when the impregnated over , paper from the ovanuom into the elevers, as is Jours in the case of an extra-uterine Jatus, It may there fore be dunied an indes peacebly requisite prepuration of the ations, for The reception of the overe, and the substance by which This is afterwards connected to the where, so that if it were to receive a name from it use it wents not be improfer to call it the renner ling months were



of the over " (Donman) I The exteres und ergoes as the over increases, a peculiar and sportaneous de litation it cavity enlargeing, its prairies thickening and its repels increasing prodigiously in size and in the quantity of their content - This enlagement by me means descrives the name of dilitation, the parieties of the where instead of being stretched in any de you, becoming thicker and thicker as the organ increases in size, It has been well observed by It Dewes one of the first account wis of the age Trut the funders and cervit of the Ulerus Jeen to constitute two distinct parts to the organ which Lather an laponize than cooperate with each other, the Junius enlarging at first, while the cervix undergoes no change, The cervix afternass delating while the Junius contracte - Hor a long while the funder or body of the ateres is alone an larger, but the nick at last partakes of the increase, and the pelois being no longer capable of containing it bulk, it rises into the absomen



with a motion distinctly felt in most women, and in some producing very unpleasant sensations "metimes before the expulsion of its contout, it has attainer tuck a sige, as to be proved time mechan really of great inconveniences, as difficulty of breathing, from its preping up the diaphram cramps and swelling of the less vo From propour on The nerves and vefels of the lower extremities The Uterus however does not always secein the proved of impregnation, costain ourses not who une ordere occasion at limes the retention of the fearendated Vesicle in the ovarium constitute; warian pregnancy, or hij in briales extremity. I The fallopian canal not being attached suffice civilly close to the surface of the overium, he mils it to drop into the atomical carity, or be ing received into the canal its papage is by some means obstructed and it remains in the tube. In all these cases it is slowly acceloped as in the uterus, which full and except its usual sympa-



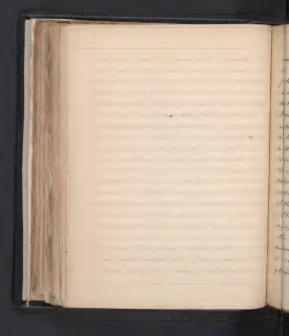
thetic operation, which cannot be in general distinguished from common exterine pregnancies until the ordinary time of latour, which of course cannot progrep. The over us early us The 8th day has been found in the utiles enveloped in its less men boanes in all probability the dame which are afternais distinguished by the name of chorion and amnion, the external surface of The on her for chorine) is nearly ecocied with beau-Well floculi, by means o' which the soum attach his itself to some part of the Western Eavily an there forms the rewineasts of the placesta, Between the chosion and amenion there is in the very early part of pregnancy, a clear fluid called liquor chosis, of acuttful origin and short duration for it disappears in the accaness stages - The america is filled to the last perior of gestation with the liquor amoir, a mits, their requeous fluis, the use of which, is uniouttally to defend both the utures and fatus from unequal



or irregular prepure, an during the delinery of the child, to effect with more mechanical asvartage and less injury the distension of the soft parts of the mother, within this fluid is suspended the embryo which is granually accordated, it parts forming in a succession not actually known . The position of the fatus in Utero is such as to take up the least possible Acount Its head is downwards, its kneed are clearen up to its belly, with it heels close to its buttocks and its arms foloco upen its breast, est is connected with the utions of the mother by menas of the um helieue coro, which is extended from the name of The fatur to the placeata, un is of various length, con - sisting principally of two arteries and one view -The placesta is a sprongy parenchematory structure uniting to yother the ramifications of Velsels, which branch out with quat minuteness . It consists o! The Jatac and maternac portions, this latter contains ing the terminations of Viens and activies deat into it from the uteriae Vepels, and the fatal former is



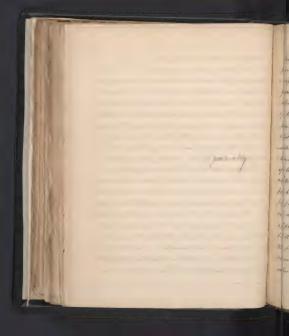
like manner by the raisoals of the untilical viens and arteries, It is usually fixed to the Junious of the uterus, though it varies much in location as well as size - The placenta has been generally action. owlerged to be the chief instrument of the nourishment of the fatus, yet the made in which it contributes to this purpose is by no means well ascertained - The best Cha tomists have been unable to discover way anas. timosis between the fatal and mational Vepels with in it, Coper inents have forin the mother uninjuse by the most extensive and ever fatal lop of blood from the fatus, and the fatus being is like manner unaffected by any lops from the mother, It is certain that them is no immercate varrelar connection between the vepels, yet a single experiment of majendie seems to point out some indirect communication. Societing into the views of a progrant bitch a quantity of camphor, he found a strong soull of this substance in one of her fetuses taken from the womb in about a quarter of as how, while



another extracted some minute, before had nothing of the ordown The relation between the mother and the fotus stite remains very observe who sequires continue. . a altertine observation for their development as to the more by which the fatus is nourishin I must confep that I am unable were to form a conjecture, the whole procep to me being. in the almost acyon misterious. The falus in Illero malues very slowly, it is not avapted to dustain a dependion from its mother until the sad of the severth month, it is then in a condition to respire, and is capable of as in defeneant existance. The precediarilies of the faties at this time are chief by as follows The Liver is exceedingly large in proportion occupying the greater part of the absomes -The Lungs are compact uni of a dask-les colour - The fore and upper part of thooked is occupied by the thymus which is called a gland but of the office of which we know



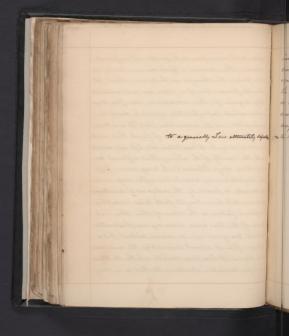
nothing, The most striking peculiarity house is in the course of the circulation The blood entering by the un believe View, is carries for the most part into the line, some of it however kapes at once to the Vena cava by the Checker I inosus, The healt is not a double or pan, having only a single circulation to perform, its aucides une Ventricles are unitio, so as to form but less caselies, the first by an opening through the parieties of the heart, called from it shape I'm Foramen Orale. The Sul moray actory is. swing from the right Ventricle sens but a small branch to each lung, the main trunk bering down weens to enter at an acute dayle with the dorta below its curse, Thus the auricles are both filler with blood from the Vena cara and the strength of both Ventrices excited to propel the bloor through the long and towards the placeata & This structure has been known to continue wa altered after bisth for the most part attending seat safferings in



Huse unfortunate cases, on account of the imperfect purification of blove by respiration, and the trans-- mission of venous blood into the lortic system . In general however immediately after birth, the stine ulus of the cots atmospherio air, causes the contraction of the Diaphrague and interestal museles, respiration begins, the foramen orale no longer of use, is closed, the ductus acteriosus becomes an impumo able ligament, and a new life is begun and con - times - The human Jemale is Uniparous, cases of tuins are however not very unfrequent, Three chiliren are some times born together yet they are per haps never, or extreemly selsom, sufficiently perfect in formation or well developed to carry on an abmospheric existance, the same remark applys in those very have cases record in of the birth of more than three, Whether living are always The prosent of the cent of a single consulation is not Known although it has become the treshion to done entirely the population of Interpolation as it is car



-led, or the successive imprognation of different germs . There remains of think no uncertainty on this point, the changes in the uterus, which fol--low the fecundation of a germ, are not immediate they require for their occurrence, some few days after which superfetation aputedly must be imposible, in the mean time I hots it as establish has by an immense number of facts that anoth a onem may be stimulated into life and descend into the casity of the uteres, That different con ceptions days Blamen back may occur from the repetition of copulation after very short intervals, is proved by the instances of adultions women, who have brought forth twins resembling different fathers in the colour of their skin I A case of this Kind came under my our observation about two years ago in marion district fola and we find it almost invariably the case arms. -ng dogs I It has been doubted whether the Uterus propeles musualar structure, Be that as it may



however, at or about the the of nine calinder months, the contractice powers of this organ are excited into action for the purpose of expelling the over now malures, The immediate cause of its taking on this action, and at this time is not ascertained, nor probably mon wile, the dest way then to account for it is by refering it on to the will of God

